

CLAIMS

What is claimed is:

1. A refrigerator comprising:
a main body formed with a storing compartment;
a first cool air duct provided in a rear of the main body;
a lamp unit mounted in an upper part of the main body and comprising a lamp and a lamp case; and
a second cool air duct which is formed in an upper part of the lamp case to communicate with the first cool air duct and allows cool air flowing through the first cool air duct to flow out toward a front of the storing compartment of the main body.
2. The refrigerator according to claim 1, wherein the second cool air duct is formed in the lamp case as one body.
3. The refrigerator according to claim 1, wherein the second cool air duct is detachably formed in the lamp case.
4. The refrigerator according to claim 1, further comprising an insulating member in the second cool air duct, to prevent dewdrops from generating in an outside of the lamp case by heat exchange of the lamp and the second cool air duct.
5. The refrigerator according to claim 2, further comprising an insulating member in the second cool air duct, to prevent dewdrops from generating in an outside of the lamp case by heat exchange of the lamp and the second cool air duct.
6. The refrigerator according to claim 3, further comprising an insulating member in the second cool air duct, to prevent dewdrops from generating in an outside of the lamp case by heat exchange of the lamp and the second cool air duct.
7. The refrigerator according to claim 1, wherein the second cool air duct comprises an upper case and a lower case engaged to each other.

8. The refrigerator according to claim 2, wherein the second cool air duct comprises an upper case and a lower case engaged to each other.

9. The refrigerator according to claim 3, wherein the second cool air duct comprises an upper case and a lower case engaged to each other.

10. The refrigerator according to claim 7, wherein the lower case comprises an insulator to prevent the dewdrops from generating by heat exchange of the lamp and the lower case.

11. The refrigerator according to claim 10, wherein the air chamber includes a discharge grate to disperse the cool air evenly across the front of the storage compartment.

12. A refrigerator comprising:
a cabinet housing a plurality of refrigeration components to produce cool air and a climate controlled storage compartment that includes an opening selectively covered by a door;
and
a lamp unit mounted above the storage compartment, to light the storage compartment when the door is open;
a cool air duct contiguous with the lamp unit wherein the cool air flowing from the plurality of refrigeration components is discharged to a front of the storage compartment by the cool air duct.

13. The refrigerator according to claim 12, wherein the cool air duct comprises a lower air duct and an upper air duct coupled together and demountably combined with the lamp unit.

14. The refrigerator according to claim 13, wherein the lower air duct is insulated.

15. The refrigerator according to claim 13, wherein the lower air duct is formed of insulating material.

16. The refrigerator according to claim 13, wherein insulation is disposed between the lower duct and the lamp unit to prevent condensation.

17. The refrigerator according to claim 12, wherein the climate controlled storage compartment is quickly returned to predetermined uniform climate controlled conditions after the door is open and shut by the cool air duct blowing cool air at the front of the storage compartment.

18. The refrigerator according to claim 12, further comprising an air chamber located at a front of the lamp unit and coupled to the cool air duct, wherein the cool air from the cool air duct is discharged through the air chamber to the front of the storage compartment.

19. The refrigerator according to claim 12, wherein the air chamber includes a discharge grate to disperse the cool air evenly across the front of the storage compartment.

20. The refrigerator according to claim 12, wherein the climate controlled storage compartment comprises another cool air duct that is mounted at a rear thereof and in communication with the cool air duct.